AUTHOR INDEX

Achterberg, A., Blandford, R.D. Transmission and damping of hydromagnetic waves behind a strong shock front: implications for cosmic ray acceleration, **218**, 551
Aggarwal, K.M. Excitation rate coefficients for optically allowed transitions in C-like ions, **218**, 123
Aitken, D.K. *see* Roche, P.F.
Aitken, D.K., Roche, P.F., Bailey, J.A., Briggs, G.P., Hough, J.H. Thomas, J.A. Infrared spectropolarimetry of the Galactic Centre: magnetic alignment in the discrete sources, **218**, 363
Allen, D.A. *see* Graham, J.R.
Arnaud, K.A. *see* Fabian, A.C.
Atherton, P.D. *see* Reay, N.K.
Axon, D.J. *see* Sparks, W.B.

Bailey, J. *see* Sparks, W. B.
Bailey, J.A. *see* Aitken, D.K.
Bailey, M.E. The mean energy transfer rate to comets in the Oort cloud and implications for cometary origins, **218**, 1
Barrow, J.D. *see* Subramanian, K.
Bebbington, D.H.O. A radio search for primordial pancakes, **218**, 577
Binney, J., May, A. The spheroids of galaxies before and after disc formation, **218**, 743
Blandford, R.D. *see* Achterberg, A.
Bond, J.R. *see* Efstathiou, G.
Bonnor, W.B., Ellis, G.F.R. Observational homogeneity of the Universe, **218**, 605
Branduardi-Raymont, G. *see* White, N.E.
Breedon, L.M., Turner, M.J.L., King, A.R., Courvoisier, T.J.-L. *EXOSAT* measurements of the quiescent X-ray spectrum of the burster 2S1636 – 536: evidence for Comptonization in a hot corona, **218**, 487
Briggs, G.P. *see* Aitken, D.K.
Brown, A. *see* Jordan, C.
Burgess, P. *see* Harrison, B.

Caldwell, J.A.R., Coulson, I.M. The geometry and distance of the Magellanic Clouds from Cepheid variables, **218**, 223
Carrie, D.R. *see* Downes, A.J.B.
Cawson, M.G.M. *see* Phillipps, S.
Clowes, R.G. Automated quasar detection in the SGP field: a clustering study, **218**, 139
Coulson, I.M. *see* Caldwell, J.A.R.
Courvoisier, T.J.-L. *see* Breedon, L.M.
Cropper, M., Menzies, J.W., Tapia, S. E1405 – 451: three seasons of polarimetry and photometry, **218**, 201
Culhane, J.L. *see* Pounds, K.A.

de Kool, M. *see* Livio, M.
de Korte, P.A.J. *see* Pounds, K.A.
Disney, M.J. *see* Phillipps, S.
Dollfus, A. *see* Geake, J.E.
Dorschner, J., Friedemann, C., Gurtler, J., Henning, Th., Wagner, H. Amorphous bronzite – a silicate of astronomical importance, **218**, 37P
Downes, A.J.B., Pauls, T., Salter, C.J. The supernova remnant W50 at 5 GHz, **218**, 393
Downes, A.J.B., Peacock, J.A., Savage, A., Carrie, D.R. The Parkes selected regions: powerful radio galaxies and quasars at high redshifts, **218**, 31
Drew, J.E. On spectral line formation in winds from extended continuum sources, **218**, 41P

Efstathiou, G., Bond, J.R. Isocurvature cold dark matter fluctuations, **218**, 103
Einasto, J. *see* Tago, E.
Elford, W.G. *see* Steel, D.I.
Ellis, G.F.R. *see* Bonnor, W.B.

Fabian, A.C., Guilbert, P.W., Arnaud, K.A., Shafer, R.A., Tennant, A.F., Ward, M.J. Some implications of excess soft X-ray emission from Seyfert 1 galaxies, **218**, 457
Fairall, A.P. Some new bright southern Seyfert galaxies, **218**, 453
Flower, D.R., Pineau-des-Forets, G., Hartquist, T.W. Theoretical studies of interstellar molecular shocks – II. Molecular hydrogen cooling and rotational level populations, **218**, 729
Forster, J.R. *see* Gardner, F.F.
Fosbury, R.A.E. *see* Wilkinson, A.
Friedemann, C *see* Dorschner, J.

Gardner, F.F., Whiteoak, J.B., Forster, J.R., Pankonin, V. Characteristics of the H_2CO maser emission in Sgr B2, **218**, 385
Geake, J.E., Dollfus, A. Planetary surface texture and albedo from parameter plots of optical polarization, **218**, 75
Giles, A.B. High-resolution mapping of the nucleus of NGC 5128 (Cen A) at *J*,*H* and *K*, **218**, 615
Graham, D.A. *see* Harrison, B.
Graham, J.R., Meikle, W.P.S., Allen, D.A., Longmore, A.J., Williams, P.M. Discovery of a large mass of iron in a type I supernova, **218**, 93
Green, D.A. Observations of 3C 58 at 151 and 2695 MHz, **218**, 533
Grimley, P.L. *see* Phillipps, S.
Guilbert, P.W. *see* Fabian, A.C.
Guilbert, P.W. Compton heating and cooling in thermal electron gases, **218**, 171
Gürtler, J *see* Dorschner, J.

Hameury, J.-M., King, A.R., Lasota, J.-P. Accretion flows in the non-synchronous magnetic cataclysmic variables, **218**, 695
Harrison, B., Pedlar, A., Unger, S.W., Burgess, P., Graham, D.A., Preuss, E. The parsec-scale structure of the radio nucleus of NGC 4151, **218**, 775

Hartquist, T.W. *see* Flower, D.R.
Hasinger, G. *see* White, N.E.
Henning, Th. *see* Dorschner, J.
Hilditch, R.W. *see* McFarlane, T.M.
Hogan, C.J. Gravitational radiation from cosmological phase transitions, **218**, 629
Horne, K., Marsh, T.R. Emission line formation in accretion discs, **218**, 761
Horne, K., Verbunt, F., Schneider, D.P. A spectroscopic study of the X-ray binary V1727 Cygni, **218**, 63
Hough, J.H. *see* Aitken, D.K.
Hough, J.H. *see* Sparks, W.B.
Howell, S.B. *see* Warnock III, A.

James, S.D. *see* Roche, P.F.
Jones, P.B. Properties of condensed matter in very strong magnetic fields, **218**, 477
Jordan, C., Brown, A., Walter, F.M., Linsky, J.L. The outer atmosphere of Procyon (αCMi F51V – V): evidence of supergranulation or active regions, **218**, 465

Kadama, H. *see* Suto, Y.
Kalinkov, M., Kuneva, I. Space distribution of nearby superclusters of galaxies, **218**, 49P
Kibblewhite, *see* Phillipps, S.
Kilkenny, D., Lydon, J. Analysis of five high-latitude blue stars, **218**, 279
King, A.R. *see* Breedon, L.M.
King, A.R. *see* Hameury, J.-M.
King, D.J. *see* McFarlane, T.M.
Kuneva, I. *see* Kalinkov, M.

Larson, R.B. Bimodal star formation and remnant-dominated galactic models, **218**, 409
Lasota, J.-P. *see* Hameury, J.-M.
Linsky, J.L. *see* Jordan, C.
Livio, M., Soker, N., de Kool, M., Savonije, G.J. On accretion of angular momentum from an inhomogeneous medium, **218**, 593
Longair, M.S. *see* Peacock, J.A.
Longmore, A.J. *see* Graham, J.R.
Lydon, J. *see* Kilkenny, D.

McFarlane, T.M., King, D.J., Hilditch, R.W. Contact and near-contact binary systems – III. The semi-detached system YY Ceti, **218**, 159
Manzo, G. *see* White, N.E.
Mardaljevic, J., Raine, D.J., Smith, M.D. Narrow line profiles and interacting gas flows in active galaxies, **218**, 651
Marsh, T.R. *see* Horne, K.
Masegosa, J., Moles, M., Penston, M.V. *IUE* observations of the highly luminous Seyfert galaxy ESO 113 – 1G45 (Fairall 9), **218**, 541
Mason, K.O. *see* White, N.E.
May, A. *see* Binney, J.
Meikle, W.P.S. *see* Graham, J.R.
Menzies, J.W. *see* Cropper, M.
Meyer, F. Conservation of mass and angular momentum in narrow transition fronts in accretion discs, **218**, 7P
Miller, L. *see* Peacock, J.A.
Mitchell, K.J. *see* Warnock III, A.
Moles, M. *see* Masegosa, J.
Moss, D. Magnetically controlled stellar winds in close binary systems, **218**, 247

Nakano, T., Umebayashi, T. Dissipation of magnetic fields in very dense interstellar clouds – I. Formulation and conditions for efficient dissipation, **218**, 663

Pankonin, V. *see* Gardner, F.F. Paradijs, J.van. Tidal spin-up and magnetic braking cataclysmic variables, **218**, 31P
Pauls, T. *see* Downes, A.J.B.
Peacock, A. *see* White, N.E.
Peacock, J.A. *see* Downes, A.J.B.
Peacock, J.A., Miller, L., Longair, M.S. The statistics of radio emission from quasars, **218**, 265
Pedlar, A. *see* Harrison, B.
Penston, M.V. *see* Masegosa, J.
Phillipps, S., Grimley, P.L., Disney, M.J., Cawson, M.G.M., Kibblewhite, E.J. CCD photometry of apparent dwarf galaxies in Fornax, **218**, 289
Pineau-des-Forets, G. *see* Flower, D.R.
Pounds, K.A., Warwick, R.S., Culhane, J.L., de Korte, P.A.J. The soft X-ray spectrum of NGC 4151, **218**, 685
Preuss, E. *see* Harrison, B.

Raine, D.J. *see* Mardaljevic, J.
Rana, N.C., Wilkinson, D.A. An estimation of the radial distribution of molecular hydrogen in the Galaxy from the star formation rates, **218**, 721
Rana, N.C., Wilkinson, D.A. Star formation and some aspects of the chemical evolution of the Galaxy, **218**, 497
Reay, N.K., Atherton, P.D., Walton, N.A. Extra-nuclear molecular hydrogen in NGC 1068, **218**, 13P
Rees, M.J. Lyman absorption lines in quasar spectra: evidence for gravitationally-confined gas in dark minihaloes, **218**, 25P
Reipurth, B. *see* Wolstencroft, R.D.
Roche, P.F. *see* Aitken, D.K.
Roche, P.F., Aitken, D.K., Smith, C.H., James, S.D. NGC 4418; a very extinguished galaxy, **218**, 19P

Saar, E. *see* Tago, E.
Salter, C.J. *see* Downes, A.J.B.
Sato, K. *see* Suto, Y.
Savage, A. *see* Downes, A.J.B.
Savage, A. *see* Wolstencroft, R.D.
Savonije, G.J. *see* Livio, M.
Scarrott, S.M. *see* Wolstencroft, R.D.
Schneider, D.P. *see* Horne, K.
Shafer, R.A. *see* Fabian, A.C.
Sharples, R.M. *see* Wilkinson, A.
Smith, C.H. *see* Roche, P.F.
Smith, M.D. *see* Mardaljevic, J.
Soker, N. *see* Livio, M.
Sparks, W.B., Hough, J.H., Axon, D.J., Bailey, J. Infrared photometry of the nuclei of early-type radio galaxies, **218**, 429
Steel, D.I., Elford, W.G. Collisions in the Solar System – III. Meteoroid survival times, **218**, 185

Subramanian, K., Barrow, J.D. Alignments of clustered quasars, **218**, 587
Suto, Y., Kodama, H., Sato, K. Cosmology with unstable dark matter, **218**, 637

Tago, E., Einasto, J., Saar, E. A prominent string of galaxies in Bootes: evidence for a Lagrangian singularity?, **218** 177
Tapia, S. *see* Cropper, M.
Taylor, B.G. *see* White, N.E.
Tennant, A.F. *see* Fabian, A.C.
Thomas, J.A. *see* Aitken, D.K.
Turner, M.J.L. *see* Breedon, L.M.

Ulvestad, J.S., Wilson, A.S. The radio source in the very luminous gamma-ray Seyfert galaxy MCG 8-11-11, **218**, 711
Umebayashi, T. *see* Nakano, T.
Unger, S.W. *see* Harrison, B.
Usher, P.D. *see* Warnock III, A.

Verbunt, F. *see* Horne, K.

Wagner, H *see* Dorschner, J
Walker, H.J. *see* Wolstencroft, R.D.
Wallace, P.T. *see* Wilkinson, A.
Walter, F.M. *see* Jordan, C.
Walton, N.A. *see* Reay, N.K.
Ward, M.J. *see* Fabian, A.C.
Warnock III, A., Usher, P.D., Mitchell, K.J., Howell, S.B. On the completeness of a sample of bright quasars selected by colour excess in the direction of the North Galactic Pole, **218**, 445
Warren-Smith, R.F. *see* Wolstencroft, R.D.
Warwick, R.S. *see* Pounds, K.A.
White, N.E., Peacock, A., Hasinger, G., Mason, K.O., Manzo, G., Taylor, B.G., Branduardi-Raymont, G.A. Study of the continuum and iron *K* line emission from low-mass X-ray binaries, **218**, 129
Whiteoak, J.B. *see* Gardner, F.F.
Wilkes, B.J. Studies of broad emission line profiles in QSOs – II. Properties of a large, predominantly radio selected sample, **218**, 331
Wilkinson, A., Sharples, R.M., Fosbury, R.A.E., Wallace, P.T. Stellar dynamics Cen A, **218**, 297
Wilkinson, D.A. *see* Rana, N.C.
Williams, P.M. *see* Graham, J.R.
Wilson, A.S. *see* Ulvestad, J.S.
Wolstencroft, R.D., Scarrott, S.M., Warren-Smith, R.F., Walker, H.J., Reipurth, B., Savage, A. A bipolar nebula in Orion identified with the *IRAS* source 05329 – 0505, **218**, 1P

SUBJECT INDEX

Abundances of the elements

Star formation and some aspects of the chemical evolution of the Galaxy (Rana, N.C., Wilkinson, D.A.), **218**, 497

Accretion and accretion discs

A spectroscopic study of the X-ray binary V1727 Cygni (Horne, K., Verbunt, F., Schneider, D.P.), **218**, 63
A Study of the continuum and iron *K* line emission from low-mass X-ray binaries (White, N.E., Peacock, A., Hasinger, G., Mason, K.O., Manzo, G., Taylor, B.G., Branduardi-Raymont, G.), **218**, 129
EXOSAT measurements of the quiescent X-ray spectrum of the burster 2S1636−536: evidence for Comptonization in a hot corona (Breedon, L.M., Turner, M.J.L., King, A.R., Courvoisier, T.J.-L.), **218**, 487
On accretion of angular momentum from an inhomogeneous medium (Livio, M., Soker, N., de Kool, M., Savonije, G.J.), **218**, 593
Accretion flows in the non-synchronous magnetic cataclysmic variables (Hameury, J.-M., King, A.R., Lasota, J.-P.), **218**, 695
Emission line formation in accretion discs (Horne, K., Marsh, T.R.), **218**, 761
Conservation of mass and angular momentum in narrow transition fronts in accretion discs (Meyer, F.), **218**, 7P
Tidal spin-up and magnetic braking cataclysmic variables (Paradijs, J.van), **218**, 31P

Celestial mechanics

The mean energy transfer rate to comets in the Oort cloud and implications for cometary origins (Bailey, M.E.), **218**, 1
Collisions in the Solar System – III. Meteoroid survival times (Steel, D.I., Elford, W.G.), **218**, 185
The spheroids of galaxies before and after disc formation (Binney, J., May, A.), **218**, 743

Comets

The mean energy transfer rate to comets in the Oort cloud and implications for cometary origins (Bailey, M.E.), **218**, 1

Cosmic rays

Transmission and damping of hydromagnetic waves behind a strong shock front: implications for cosmic ray acceleration (Achterberg, A., Blandford, R.D.), **218**, 551

Cosmology

The Parkes selected regions: powerful radio galaxies and quasars at high redshifts (Downes, A.J.B., Peacock, J.A., Savage, A., Carrie, D.R.), **218**, 31
Isocurvature cold dark matter fluctuations (Efstathiou, G., Bond, J.R.), **218**, 103
A prominent string of galaxies in Bootes: evidence for a Lagrangian singularity? (Tago, E., Einasto, J., Saar, E.), **218** 177
The statistics of radio emission from quasars (Peacock, J.A., Miller, L., Longair, M.S.), **218**, 265
On the completeness of a sample of bright quasars selected by colour excess in the direction of the North Galactic Pole (Warnock III, A., Usher, P.D., Mitchell, K.J., Howell, S.B.), **218**, 445
A radio search for primordial pancakes (Bebbington, D.H.O.), **218**, 577
Alignments of clustered quasars (Subramanian, K., Barrow, J.D.), **218**, 587
Observational homogeneity of the Universe (Bonnor, W.B., Ellis, G.F.R.), **218**, 605
Gravitational radiation from cosmological phase transitions (Hogan, C.J.), **218**, 629
Cosmology with unstable dark matter (Suto, Y., Kodama, H., Sato, K.), **218**, 637
Lyman absorption lines in quasar spectra: evidence for gravitationally-confined gas in dark minihaloes (Rees, M.J.), **218**, 25P
Space distribution of nearby superclusters of galaxies (Kalinkov, M., Kuneva, I.), **218**, 49P

Data reduction

Alignments of clustered quasars (Subramanian, K., Barrow, J.D.), **218**, 587

Galactic centre

Infrared spectropolarimetry of the Galactic Centre: magnetic alignment in the discrete sources (Aitken, D.K., Roche, P.F., Bailey, J.A., Briggs, G.P., Hough, J.H. Thomas, J.A.), **218**, 363
Characteristic of the H_2CO maser emission in Sgr B2 (Gardner, F.F., Whiteoak, J.B., Forster, J.R., Pankonin, V.), **218**, 385P

Galactic structure and stellar dynamics

CCD photometry of apparent dwarf galaxies in Fornax (Phillipps, S., Grimley, P.L., Disney, M.J., Cawson, M.G.M., Kibblewhite, E.J.), **218**, 289
Stellar dynamics Cen A (Wilkinson, A., Sharples, R.M., Fosbury, R.A.E., Wallace, P.T.), **218**, 297
Bimodal star formation and remnant-dominated galactic models (Larson, R.B.), **218**, 409

Star formation and some aspects of the chemical evolution of the Galaxy (Rana, N.C., Wilkinson, D.A.), **218**, 497
The spheroids of galaxies before and after disc formation (Binney, J., May, A.), **218**, 743

Galaxies

A prominent string of galaxies in Bootes: evidence for a Lagrangian singularity? (Tago, E., Einasto, J., Saar, E.), **218** 177
CCD photometry of apparent dwarf galaxies in Fornax (Phillipps, S., Grimley, P.L., Disney, M.J., Cawson, M.G.M., Kibblewhite, E.J.), **218**, 289
Stellar dynamics Cen A (Wilkinson, A., Sharples, R.M., Fosbury, R.A.E., Wallace, P.T.), **218**, 297
Bimodal star formation and remnant-dominated galactic models (Larson, R.B.), **218**, 409

Galaxies – active

The Parkes selected regions: powerful radio galaxies and quasars at high redshifts (Downes, A.J.B., Peacock, J.A., Savage, A., Carrie, D.R.), **218**, 31
Infrared photometry of the nuclei of early-type radio galaxies (Sparks, W.B., Hough, J.H., Axon, D.J., Bailey, J.), **218**, 429
Narrow line profiles and interacting gas flows in active galaxies (Mardaljevic, J., Raine, D.J., Smith, M.D.), **218**, 651

Galaxies – formation of

Isocurvature cold dark matter fluctuations (Efstathiou, G., Bond, J.R.), **218**, 103
A prominent string of galaxies in Bootes: evidence for a Lagrangian singularity? (Tago, E., Einasto, J., Saar, E.), **218** 177
A radio search for primordial pancakes (Bebbington, D.H.O.), **218**, 577
Cosmology with unstable dark matter (Suto, Y., Kodama, H., Sato, K.), **218**, 637

Galaxies – nuclei of

Infrared photometry of the nuclei of early-type radio galaxies (Sparks, W.B., Hough, J.H., Axon, D.J., Bailey, J.), **218**, 429
High-resolution mapping of the nucleus of NGC 5128 (Cen A) at *J*,*H* and *K* (Giles, A.B.), **218**, 615
The parsec-scale structure of the radio nucleus of NGC 4151 (Harrison, B., Pedlar, A., Unger, S.W., Burgess, P., Graham, D.A., Preuss, E.), **218**, 775
NGC 4418; a very extinguished galaxy (Roche, P.F., Aitken, D.K., Smith, C.H., James, S.D.), **218**, 19P

Galaxies – Seyfert

Some new bright southern Seyfert galaxies (Fairall, A.P.), **218**, 453
Some implications of excess soft X-ray emission from Seyfert 1 galaxies (Fabian, A.C., Guilbert, P.W., Arnaud, K.A., Shafer, R.A., Tennant, A.F., Ward, M.J.), **218**, 457
IUE observations of the highly luminous Seyfert galaxy ESO 113 – 1G45 (Fairall 9) (Masegosa, J., Moles, M., Penston, M.V.), **218**, 541
The soft X-ray spectrum of NGC 4151 (Pounds, K.A., Warwick, R.S., Culhane, J.L., de Korte, P.A.J.), **218**, 685
The radio source in the very luminous gamma-ray Seyfert galaxy MCG 8-11-11 (Ulvestad, J.S., Wilson, A.S.), **218**, 711
The parsec-scale structure of the radio nucleus of NGC 4151 (Harrison, B., Pedlar, A., Unger, S.W., Burgess, P., Graham, D.A., Preuss, E.), **218**, 775
Extra-nuclear molecular hydrogen in NGC 1068 (Reay, N.K., Atherton, P.D., Walton, N.A.), **218**, 13P

Galaxy clusters

A prominent string of galaxies in Bootes: evidence for a Lagrangian singularity? (Tago, E., Einasto, J., Saar, E.), **218** 177
Cosmology with unstable dark matter (Suto, Y., Kodama, H., Sato, K.), **218**, 637
Space distribution of nearby superclusters of galaxies (Kalinkov, M., Kuneva, I.), **218**, 49P

Gravitation and gravitational radiation

Gravitational radiation from cosmological phase transitions (Hogan, C.J.), **218**, 629

Infrared astronomy

Discovery of a large mass of iron in a type I supernova (Graham, J.R., Meikle, W.P.S., Allen, D.A., Longmore, A.J., Williams, P.M.), **218**, 93
Infrared spectropolarimetry of the Galactic Centre: magnetic alignment in the discrete sources (Aitken, D.K., Roche, P.F., Bailey, J.A., Briggs, G.P., Hough, J.H. Thomas, J.A.), **218**, 363
Infrared photometry of the nuclei of early-type radio galaxies (Sparks, W.B., Hough, J.H., Axon, D.J., Bailey, J.), **218**, 429
High-resolution mapping of the nucleus of NGC 5128 (Cen A) at *J*,*H* and *K* (Giles, A.B.), **218**, 615
A bipolar nebula in Orion identified with the *IRAS* source 05329 – 0505 (Wolstencroft, R.D., Scarrott, S.M., Warren-Smith, R.F., Walker, H.J., Reipurth, B., Savage, A.), **218**, 1P
Extra-nuclear molecular hydrogen in NGC 1068 (Reay, N.K., Atherton, P.D., Walton, N.A.), **218**, 13P
NGC 4418; a very extinguished galaxy (Roche, P.F., Aitken, D.K., Smith, C.H., James, S.D.), **218**, 19P
Amorphous bronzite – a silicate of astronomical importance (Dorschner, J., Friedemann, C., Gürtler, J., Henning, Th., Wagner, H), **218**, 37P

Instruments and techniques

Automated quasar detection in the SGP field: a clustering study (Clowes, R.G.), **218**, 139

Intergalactic medium

Isocurvature cold dark matter fluctuations (Efstathiou, G., Bond, J.R.), **218**, 103
Lyman absorption lines in quasar spectra: evidence for gravitationally-confined gas in dark minihaloes (Rees, M.J.), **218**, 25P

Interplanetary medium

Collisions in the Solar System – III. Meteoroid survival times (Steel, D.I., Elford, W.G.), **218**, 185

Interstellar grains

Infrared spectropolarimetry of the Galactic Centre: magnetic alignment in the discrete sources (Aitken, D.K., Roche, P.F., Bailey, J.A., Briggs, G.P., Hough, J.H. Thomas, J.A.), **218**, 363
A bipolar nebula in Orion identified with the *IRAS* source 05329 – 0505 (Wolstencroft, R.D., Scarrott, S.M., Warren-Smith, R.F., Walker, H.J., Reipurth, B., Savage, A.), **218**, 1P
NGC 4418; a very extinguished galaxy (Roche, P.F., Aitken, D.K., Smith, C.H., James, S.D.), **218**, 19P
Amorphous bronzite – a silicate of astronomical importance (Dorschner, J., Friedemann, C., Gürtler, J., Henning, Th., Wagner, H), **218**, 37P

Interstellar medium

Narrow line profiles and interacting gas flows in active galaxies (Mardaljevic, J., Raine, D.J., Smith, M.D.), **218**, 651
Dissipation of magnetic fields in very dense interstellar clouds – I. Formulation and conditions for efficient dissipation (Nakano, T., Umebayashi, T.), **218**, 663
An estimation of the radial distribution of molecular hydrogen in the Galaxy from the star formation rates (Rana, N.C., Wilkinson, D.A.), **218**, 721
Theoretical studies of interstellar molecular shocks – II. Molecular hydrogen cooling and rotational level populations (Flower, D.R., Pineau-des-Forets, G., Hartquist, T.W.), **218**, 729

Magellanic clouds

The geometry and distance of the Magellanic Clouds from Cepheid variables (Caldwell, J.A.R., Coulson, I.M.), **218**, 223

Masers

Characteristic of the H_2CO maser emission in Sgr B2 (Gardner, F.F., Whiteoak, J.B., Forster, J.R., Pankonin, V.), **218**, 385

Meteors

Collisions in the Solar System – III. Meteoroid survival times (Steel, D.I., Elford, W.G.), **218**, 185

Microwave background

Isocurvature cold dark matter fluctuations (Efstathiou, G., Bond, J.R.), **218**, 103

Molecules

Extra-nuclear molecular hydrogen in NGC 1068 (Reay, N.K., Atherton, P.D., Walton, N.A.), **218**, 13P

Molecules and molecular clouds

Characteristic of the H_2CO maser emission in Sgr B2 (Gardner, F.F., Whiteoak, J.B., Forster, J.R., Pankonin, V.), **218**, 385
Star formation and some aspects of the chemical evolution of the Galaxy (Rana, N.C., Wilkinson, D.A.), **218**, 497
Dissipation of magnetic fields in very dense interstellar clouds – I. Formulation and conditions for efficient dissipation (Nakano, T., Umebayashi, T.), **218**, 663
An estimation of the radial distribution of molecular hydrogen in the Galaxy from the star formation rates (Rana, N.C., Wilkinson, D.A.), **218**, 721
Theoretical studies of interstellar molecular shocks – II. Molecular hydrogen cooling and rotational level populations (Flower, D.R., Pineau-des-Forets, G., Hartquist, T.W.), **218**, 729

Nebulae – gaseous

Dissipation of magnetic fields in very dense interstellar clouds – I. Formulation and conditions for efficient dissipation (Nakano, T., Umebayashi, T.), **218**, 663

Nebulae – reflection

A bipolar nebula in Orion identified with the *IRAS* source 05329 – 0505 (Wolstencroft, R.D., Scarrott, S.M., Warren-Smith, R.F., Walker, H.J., Reipurth, B., Savage, A.), **218**, 1p

Neutron stars

A Study of the continuum and iron *K* line emission from low-mass X-ray binaries (White, N.E., Peacock, A., Hasinger, G., Mason, K.O., Manzo, G., Taylor, B.G., Branduardi-Raymont, G.), **218**, 129
Properties of condensed matter in very strong magnetic fields (Jones, P.B.), **218**, 477
EXOSAT measurements of the quiescent X-ray spectrum of the burster 2S1636 – 536: evidence for Comptonization in a hot corona (Breedon, L.M., Turner, M.J.L., King, A.R., Courvoisier, T.J.-L.), **218**, 487
On accretion of angular momentum from an inhomogeneous medium (Livio, M., Soker, N., de Kool, M., Savonije, G.J.), **218**, 593

Photometry – non-stellar

CCD photometry of apparent dwarf galaxies in Fornax (Phillipps, S., Grimley, P.L., Disney, M.J., Cawson, M.G.M., Kibblewhite, E.J.), **218**, 289
Infrared photometry of the nuclei of early-type radio galaxies (Sparks, W.B., Hough, J.H., Axo, D.J., Bailey, J.), **218**, 429

Physical processes

Planetary surface texture and albedo from parameter plots of optical polarization (Geake, J.E., Dollfus, A.), **218**, 75
Compton heating and cooling in thermal electron gases (Guilbert, P.W.), **218**, 171
Some implications of excess soft X-ray emission from Seyfert 1 galaxies (Fabian, A.C., Guilbert, P.W., Arnaud, K.A., Shafer, R.A., Tennant, A.F., Ward, M.J.), **218**, 457
Properties of condensed matter in very strong magnetic fields (Jones, P.B.), **218**, 477
Transmission and damping of hydromagnetic waves behind a strong shock front: implications for cosmic ray acceleration (Achterberg, A., Blandford, R.D.), **218**, 551
On accretion of angular momentum from an inhomogeneous medium (Livio, M., Soker, N., de Kool, M., Savonije, G.J.), **218**, 593
Gravitational radiation from cosmological phase transitions (Hogan, C.J.), **218**, 629
Theoretical studies of interstellar molecular shocks – II. Molecular hydrogen cooling and rotational level populations (Flower, D.R., Pineau-des-Forets, G., Hartquist, T.W.), **218**, 729
Conservation of mass and angular momentum in narrow transition fronts in accretion discs (Meyer, F.), **218**, 7p
Tidal spin-up and magnetic braking cataclysmic variables (Paradijs, J.van), **218**, 31P

Planets

Planetary surface texture and albedo from parameter plots of optical polarization (Geake, J.E., Dollfus, A.), **218**, 75

Polarization of starlight

E1405 – 451: three seasons of polarimetry and photometry (Cropper, M., Menzies, J.W., Tapia, S.), **218**, 201

Pulsars

Properties of condensed matter in very strong magnetic fields (Jones, P.B.), **218**, 477

Quasers

The Parkes selected regions: powerful radio galaxies and quasars at high redshifts (Downes, A.J.B., Peacock, J.A., Savage, A., Carrie, D.R.), **218**, 31
Automated quasar detection in the SGP field: a clustering study (Clowes, R.G.), **218**, 139
The statistics of radio emission from quasars (Peacock, J.A., Miller, L., Longair, M.S.), **218**, 265
Studies of broad emission line profiles in QSOs – II. Properties of a large, predominantly radio selected sample (Wilkes, B.J.), **218**, 331
On the completeness of a sample of bright quasars selected by colour excess in the direction of the North Galactic Pole (Warnock III, A., Usher, P.D., Mitchell, K.J., Howell, S.B.), **218**, 445
Alignments of clustered quasars (Subramanian, K., Barrow, J.D.), **218**, 587
Lyman absorption lines in quasar spectra: evidence for gravitationally-confined gas in dark minihaloes (Rees, M.J.), **218**, 25P

Radio astronomy

The Parkes selected regions: powerful radio galaxies and quasars at high redshifts (Downes, A.J.B., Peacock, J.A., Savage, A., Carrie, D.R.), **218**, 31
The statistics of radio emission from quasars (Peacock, J.A., Miller, L., Longair, M.S.), **218**, 265
Studies of broad emission line profiles in QSOs – II. Properties of a large, predominantly radio selected sample (Wilkes, B.J.), **218**, 331
Characteristic of the H_2CO maser emission in Sgr B2 (Gardner, F.F., Whiteoak, J.B., Forster, J.R., Pankonin, V.), **218**, 385
The supernova remnant W50 at 5 GHz (Downes, A.J.B., Pauls, T., Salter, C.J.), **218**, 393
Observations of 3C 58 at 151 and 2695 MHz (Green, D.A.), **218**, 533
A radio search for primordial pancakes (Bebbington, D.H.O.), **218**, 577
The radio source in the very luminous gamma-ray Seyfert galaxy MCG 8-11-11 (Ulvestad, J.S., Wilson, A.S.), **218**, 711
The parsec-scale structure of the radio nucleus of NGC 4151 (Harrison, B., Pedlar, A., Unger, S.W., Burgess, P., Graham, D.A., Preuss, E.), **218**, 775

Radiative transfer

Compton heating and cooling in thermal electron gases (Guilbert, P.W.), **218**, 171
On spectral line formation in winds from extended continuum sources (Drew, J.E.), **218**, 41P

Relativity

Observational homogeneity of the Universe (Bonnor, W.B., Ellis, G.F.R.), **218**, 605

Solar system

The mean energy transfer rate to comets in the Oort cloud and implications for cometary origins (Bailey, M.E.), **218**, 1
Collisions in the Solar System – III. Meteoroid survival times (Steel, D.I., Elford, W.G.), **218**, 185

Spectroscopy

Excitation rate coefficients for optically allowed transitions in C-like ions (Aggarwal, K.M.), **218**, 123
Theoretical studies of interstellar molecular shocks – II. Molecular hydrogen cooling and rotational level populations (Flower, D.R., Pineau-des-Forets, G., Hartquist, T.W.), **218**, 729
Emission line formation in accretion discs (Horne, K., Marsh, T.R.), **218**, 761
On spectral line formation in winds from extended continuum sources (Drew, J.E.), **218**, 41P

Stars – atmospheres of

Analysis of five high-latitude blue stars (Kilkenny, D., Lydon, J.), **218**, 279
The outer atmosphere of Procyon (αCMiF51V – V): evidence of supergranulation or active regions (Jordan, C., Brown, A., Walter, F.M., Linsky, J.L.), **218**, 465

Stars – binary

A spectroscopic study of the X-ray binary V1727 Cygni (Horne, K., Verbunt, F., Schneider, D.P.), **218**, 63
A Study of the continuum and iron *K* line emission from low-mass X-ray binaries (White, N.E., Peacock, A., Hasinger, G., Mason, K.O., Manzo, G., Taylor, B.G., Branduardi-Raymont, G.), **218**, 129
Contact and near-contact binary systems – III. The semi-detached system YY Ceti (McFarlane, T.M., King, D.J., Hilditch, R.W.), **218**, 159
E1405 – 451: three seasons of polarimetry and photometry (Cropper, M., Menzies, J.W., Tapia, S.), **218**, 210
Magnetically controlled stellar winds in close binary systems (Moss, D.), **218**, 247
EXOSAT measurements of the quiescent X-ray spectrum of the burster 2S1636 – 536: evidence for Comptonization in a hot corona (Breedon, L.M., Turner, M.J.L., King, A.R., Courvoisier, T.J.-L.), **218**, 487
Accretion flows in the non-synchronous magnetic cataclysmic variables (Hameury, J.-M., King, A.R., Lasota, J.-P.), **218**, 695
Tidal spin-up and magnetic braking cataclysmic variables (Paradijs, J.van), **218**, 31P

Stars – chemical composition of

Discovery of a large mass of iron in a type I supernova (Graham, J.R., Meikle, W.P.S., Allen, D.A., Longmore, A.J., Williams, P.M.), **218**, 93

Stars – formation of

Bimodal star formation and remnant-dominated galactic models (Larson, R.B.), **218**, 409
Star formation and some aspects of the chemical evolution of the Galaxy (Rana, N.C., Wilkinson, D.A.), **218**, 497
An estimation of the radial distribution of molecular hydrogen in the Galaxy from the star formation rates (Rana, N.C., Wilkinson, D.A.), **218**, 721

Stars – magnetic fields in

Magnetically controlled stellar winds in close binary systems (Moss, D.), **218**, 247
Properties of condensed matter in very strong magnetic fields (Jones, P.B.), **218**, 477
Accretion flows in the non-synchronous magnetic cataclysmic variables (Hameury, J.-M., King, A.R., Lasota, J.-P.), **218**, 695

Stars – mass loss from

Magnetically controlled stellar winds in close binary systems (Moss, D.), **218**, 247
On spectral line formation in winds from extended continuum sources (Drew, J.E.), **218**, 41P

Stars – photometry of

Contact and near-contact binary systems – III. The semi-detached system YY Ceti (McFarlane, T.M., King, D.J., Hilditch, R.W.), **218**, 159
E1405 – 451: three seasons of polarimetry and photometry (Cropper, M., Menzies, J.W., Tapia, S.), **218**, 210
Analysis of five high-latitude blue stars (Kilkenny, D., Lydon, J.), **218**, 279
A bipolar nebula in Orion identified with the *IRAS* source 05329 – 0505 (Wolstencroft, R.D., Scarrott, S.M., Warren-Smith, R.F., Walker, H.J., Reipurth, B., Savage, A.), **218**, 1P

Stars – spectroscopy of

A spectroscopic study of the X-ray binary V1727 Cygni (Horne, K., Verbunt, F., Schneider, D.P.), **218**, 63
Contact and near-contact binary systems – III. The semi-detached system YY Ceti (McFarlane, T.M., King, D.J., Hilditch, R.W.), **218**, 159
Analysis of five high-latitude blue stars (Kilkenny, D., Lydon, J.), **218**, 279
Amorphous bronzite – a silicate of astronomical importance (Dorschner, J., Friedemann, C., Gürtler, J., Henning, Th., Wagner, H), **218**, 37P

Stars – variable

E1405 – 451: three seasons of polarimetry and photometry (Cropper, M., Menzies, J.W., Tapia, S.), **218**, 210
The geometry and distance of the Magellanic Clouds from Cepheid variables (Caldwell, J.A.R., Coulson, I.M.), **218**, 223
Accretion flows in the non-synchronous magnetic cataclysmic variables (Hameury, J.-M., King, A.R., Lasota, J.-P.), **218**, 695
Tidal spin-up and magnetic braking cataclysmic variables (Paradijs, J.van), **218**, 31P

Supernovae and supernova remnants

Discovery of a large mass of iron in a type I supernova (Graham, J.R., Meikle, W.P.S., Allen, D.A., Longmore, A.J., Williams, P.M.), **218**, 93
The supernova remnant W50 at 5 GHz (Downes, A.J.B., Pauls, T., Salter, C.J.), **218**, 393
Observations of 3C 58 at 151 and 2695 MHz (Green, D.A.), **218**, 533

Ultraviolet astronomy

IUE observations of the highly luminous Seyfert galaxy ESO 113 – 1G45 (Fairall 9) (Masegosa, J., Moles, M., Penston, M.V.), **218**, 541

X-ray astronomy

A spectroscopic study of the X-ray binary V1727 Cygni (Horne, K., Verbunt, F., Schneider, D.P.), **218**, 63
A Study of the continuum and iron *K* line emission from low-mass X-ray binaries (White, N.E., Peacock, A., Hasinger, G., Mason, K.O., Manzo, G., Taylor, B.G., Branduardi-Raymont, G.), **218**, 129
Compton heating and cooling in thermal electron gases (Guilbert, P.W.), **218**, 171
Some implications of excess soft X-ray emission from Seyfert 1 galaxies (Fabian, A.C., Guilbert, P.W., Arnaud, K.A., Shafer, R.A., Tennant, A.F., Ward, M.J.), **218**, 457
The outer atmosphere of Procyon (αCMiF51V – V): evidence of supergranulation or active regions (Jordan, C., Brown, A., Walter, F.M., Linsky, J.L.), **218**, 465
EXOSAT measurements of the quiescent X-ray spectrum of the burster 2S1636 – 536: evidence for Comptonization in a hot corona (Breedon, L.M., Turner, M.J.L., King, A.R., Courvoisier, T.J.-L.), **218**, 487
The soft X-ray spectrum of NGC 4151 (Pounds, K.A., Warwick, R.S., Culhane, J.L., de Korte, P.A.J.), **218**, 685